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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/622,048	07	//17/2003	Randy L. Ekl	CM05154H 2270	
22917	7590	02/08/2005		EXAMINER	
MOTOROLA	-		JAIN, RAJ K		
1303 EAST ALGONQUIN ROAD IL01/3RD				ART UNIT	PAPER NUMBER
SCHAUMBURG, IL 60196				2664	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/622,048	EKL ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Raj K Jain	2664			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a represent of period for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 17	<i>July 2003</i> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-19</u> is/are pending in the application 4a) Of the above claim(s) is/are withdred Claim(s) is/are allowed. Claim(s) <u>1-19</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	awn from consideration.				
Applicati	on Papers		-			
10)⊠	The specification is objected to by the Examination The drawing(s) filed on 17 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the file.	a) accepted or b) objected to be drawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	inder 35 U.S.C. § 119	€	•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen 1) Notice	et(s) ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice 3) Information	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	Paper No(s)/Mail D	•			

Art Unit: 2664

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Wejke et al (US005175867A) in view of Rom (US006360264B1).

Regarding claims 1, 9 and 13, Wejke discloses a method for call handoff in a wireless communications system from a serving cell to neighboring cell. The method comprising the steps of,

-at the base station: receiving a first transmission at a first signal quality from the mobile station (see Fig 4, col 9 lines 23-25, the serving base station receives the first signal quality from a base station);

-receiving a second transmission that indicates a second signal quality at which a second base station is receiving transmissions from the mobile station (see Fig 5, col 9 lines 49-52, the second transmission indicating the second signal quality is received by the neighboring base station or the second base station from the mobile station),

-comparing the first signal quality with the second signal quality (see col 8 lines 43-47, the MSC within a given serving area compares the signal qualities or strengths of the mobiles between different base stations);

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-and when the second signal quality is greater than the first signal quality, signaling the second base station to initiate a handoff with the mobile station (see Fig 5, col 8 lines 60-65, col 10 lines 20-30, the MSC compares and determines the strength or quality of the second signal and than initiates a handoff order to the second base station if the second signal quality is greater than the first).

Wejke discloses a mobile assisted handoff within a cellular communications system, however, Wejke fails to disclose access points performing the handoff within a communications system.

Rom discloses access points 13 for inter-cell communications in order to maintain connectivity of nodes in a wireless system (Fig 1).

Access points or base stations serve to provide a reassociation process without losing connectivity between serving cells in a wireless communications system by relaying packets into and out of a given serving area without break in service to the user, mobile or node (see Figs 1, 2A, 3, col 4 lines 38-64). Because an access point is analogous to a base station, the terminology with respect to cells and sectors is the same as with respect to voice systems. Access points communicate with other access points when initiating a handoff and therefore do not require the additional functionality of a MSC for handoff procedures as is required within typical base station systems.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize access points instead of possibly base stations for handoff purposes as taught by Rom within Wejke thereby reducing or eliminating the need for MSC's to initiate a handoff request procedure.

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Regarding claims 2 and 19, Wejke discloses wireless communications which is packet oriented and handoff initiation is performed by the second base station or access point when the signal quality is higher than the predetermined threshold (see Fig 5, col 8 lines 60-65, col 10 lines 20-30, the MSC compares and determines the strength or quality of the second signal and than initiates a handoff order to the second base station if the second signal quality is greater than the first).

Regarding claims 3 and 12, Wejke discloses second transmission from the second base station or access point (see col 9 line 50).

Regarding claims 4, 8, 10, 14 Wejke discloses receiving a third transmission that indicates a third signal quality at which the mobile station is receiving transmissions from the second access point (see col 10 lines 25-30, the third signal is handoff control to the mobile from the second base station).

Regarding claims 5, 11, Wejke discloses the step of signaling performed when the third signal quality exceeds a threshold (see col 10 lines 20-25).

Regarding claim 6, Wejke discloses third transmission further indicating a fourth signal quality at which the mobile station is receiving transmissions from the first access point (see col 2 lines 40-55, the fourth signal indicating disassociation with current base station once handoff is initiated).

Regarding claim 7, Wejke discloses third signal from second base station to mobile, which it has accepted for handoff, and forth signal is weak signal from original serving base station to mobile for disassociation (see col 2 lines 40-55).

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Regarding claim 14, Wejke discloses first and second signal qualities received from first transmission from the mobile (see col 9 line 25-30), and third signal is received from second transmission from second base station (see col 10 line 20-25).

Claims 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wejke et al (US005175867A) in view of Rom (US006360264B1).

Regarding claim 15, Wejke discloses a method for call handoff in a wireless communications system from a serving cell to neighboring cell. The method comprising the steps of,

-receiving a first transmission at a given signal quality from the mobile station (see Fig 4, col 9 lines 23-25, the serving base station receives the first signal quality from a base station);

-receiving a second transmission that indicates a second signal quality at which a second base station is receiving transmissions from the mobile station (see Fig 5, col 9 lines 49-52, the second transmission indicating the second signal quality is received by the neighboring base station or the second base station from the mobile station),

-signaling the first access point or base station with the given signal quality in which the transmission was received from the mobile station when the given signal quality exceeds a predetermined threshold (see 202 Fig 4, col 9 lines 25-30, the base station monitors and determines if the signal exceeds a predetermined threshold);

and sending a transmission to the mobile station to disassociate with the first access point when a handoff trigger is received within a predetermined time period from

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the first access point (see Fig 4, col 9 lines 30-35, the handoff request is sent from the neighboring access point once the predetermined threshold is exceed see col 10 lines 5-30).

Wejke discloses a mobile assisted handoff within a cellular communications system, however, Wejke fails to disclose access points performing the handoff within a communications system.

Rom discloses access points 13 for inter-cell communications in order to maintain connectivity of nodes in a wireless system (Fig 1).

Access points or base stations serve to provide a reassociation process without losing connectivity between serving cells in a wireless communications system by relaying packets into and out of a given serving area without break in service to the user, mobile or node (see Figs 1, 2A, 3, col 4 lines 38-64). Because an access point is analogous to a base station, the terminology with respect to cells and sectors is the same as with respect to voice systems. Access points communicate with other access points when initiating a handoff and therefore do not require the additional functionality of a MSC for handoff procedures as is required within typical base station systems.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize access points instead of possibly base stations for handoff purposes as taught by Rom within Wejke thereby reducing or eliminating the need for MSC's to initiate a handoff request procedure.

Regarding claim 16, Wejke discloses that the threshold values for each access point may be varied and may be more than one (see col 9 lines 56-67).

Regarding claims 17 and 18, Wejke discloses messaging as part of the control function sent in conjunction with signaling between mobile and base stations (see col 4 lines 52-56, col 7 lines 55-65).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

RJ January 26, 2005

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